Approved For Release 2003/11/19 : CIA-RDP80B01<u>13</u>9A900500280009-0 T/VIII/W-2/1./ 5 January 1965 INTELLIGENCE BOARD UNITED STATES COMMITTEE ON DOCUMENTATION TASK TRAM VIII - PHOTO CHIP Term's of Reference I. OBJECTIVE To recommend to CODIB the most effective, efficient and Moducing, hand like a conomical means of exchanging storing and retrieving photograph primarily aerial) for all organizations/agencies within the purview of the USIB. II. BACKGROUND USIB Charge to CODIB develop a standard Photo Chip, exploring the feasibility of adopting the recently developed DoD standard." 1/ NOTE - (Initial inquiry by the Task Team indicates the ISCIG /2/ report from which the DoD "standrd" has not been officially aported or implemented. Moreover, it is/the understanding of the Pask Team that/the ISCIG study condentrated on the operating problems of the services, and The CODIB Photo Chip lask I same that it operated at the SECRET level. will operate at all nices. necessary classification level classificat levels will examine as aspects of the strategic and tactical intelligence cycles, i.e., collection, production, analysis, she change me - Insut cows B definition 2 (P) of the Chairmans

 $oldsymbol{2}'$ Directed by USIB, 29 April 1964, USIB-M-322 Intente. 2/ on ment pack

transmittel orkno.

Excluded from automatic downgrading and declassification

Approved of Release 2003/11/19: CIA/RDP80B01139A000500280009-0 I A - Note - Initial enquiry by the Tosh Team inclientes that the ISCIG study from which the DOD standard was evolved concentrated on the operating problems of the services and was limited to secret level deliberations. With the exception of the 70 × 100 mm external film chip size, the DOD stordore, which was designed for tactual case, has not been officially Sue & Pick up tolf or implemented. The coDIB ...

and storage and retrieval with particular reference to the needs of the Intelligence Community and to the efficiency and effectiveness of the Community's ideeded examination of information processing system.inaluding standardized indexing SCIPS Recommendation 3/ of photographic materials....reduction of tremendous volume of film presently being distributed....standardized film chips and related equipment for storing, retrieving, interpreting and duplicating photography ... standard reporting techniques and formats....techniques for more successful integration of all photographic materials....techniques for getting photoderived information to users in quickest possible time...." Photo Chip Applications 4 The state of the that forms of chipped information have developed over the past few years that these forms are used to store images of both) While we cannot at this pure. physical objects and textual data.

physical objects and textual data. While we cannot at this purifications by intelligence functions or physical characteristics, the

following are three broadly different uses that have emerged ?

1. In an Operational Data Base

2/ Special ISCIG Committee for Standardization of Plans and Devices for Storage and Retrieval of Reconnaissance Materials, 10 June 1963.

Staff for the Community Information Processing Study (SCIPS) Stage I Report, SC No. 11957/63, 8 November 1963.

Approved For Release 2003/11/19: CIA-RDP80B01139A000500280009-075 stereograms and ipborne operational support system). Analytic Data Base, e.g., PR NPIC Gue NERSION materials stored in systems, such as Microfithe. SCOPE AND APPROACH III. both the present and potential Value The main effort will be to requirement for photographic within the Intelligence Community, with particular Cerence to aerial reconnaissance photography to appraise the present and prospective in flows in relation to photo chip requirements, to examine wasywaxax ways and means for making the most of the photographic information available at any given time, and to assess to the extent possible the impact of certain constraining factors in technology, chemistry, sercurity, organization structure and The Team will seek out the information relevant to Physics broad targets within the Intelligence Community, extending beyond only to obtain those insights essential to the successful completion of its inquiry. To the maximum extent possible, the Team will utilize 🗪 existing reports to provide the basic data. To fill in critical gaps in what is admittedly incomplete literature, we plan to request reports from those operating elements most qualified to collect the needed information and

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most competent to speak authoritatively to the problem under Approved For Release 2003/11/19: CIA-RDP80B01139A000500280009-0

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The foregoing will be supplemented with briefings by people having particularly r vent competence for the problem at hand. We plan to make on-site inspections of important chip systems/within the Community/and of selected firms who can contribute significantly on certain aspects of turing to technology in the fields of chip handling equipments, chip content design; film emulsion chemistry; and on the physics of film bonds and bases, withe electronics, optics and mechanics and mechanics acquisition. of chip reading and on The Task Team will operate at all appropriate security

clessification levels

IV. TASKS

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The following tasks indicate major areas of concern to the Task Team's inquiry with questions under each major heading designed to open avenues of particular interest to the general Photo Chip problem. They are not intended to constrain in any way either the Task Team's inquiry or its report to CODIB.

Identify and Describe existing Photographic Information (multisensor imagery 💋) collection, processing and using systems at the National, Departmental and Operational levels.

> Questions - What are the names, ages, and general functions of the various systems? Which ones are located within the Intelligence Community? Outside the Community? What are the operating relationships between the group

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within the Community and the group outside? What

as used their

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interface relationships among those systems within the Community? Among those outside? What are the major uses made of photographic information—by the collector/processors? By the single-source producers? By the multi-source producers? By the users of various intelligence end products? By others?

- B. Identify and describe existing Photo Chip systems at the National,
 Departmental and Operational level.
 - 1. Questions What is the name, age and general function of each system? At what level or levels does it function? And, what are its production and functional responsibilities? How has each system worked over the past few years, and white what are its prospects over the immediate and medium-term future? What are the present interface relationships among the various Photo Chip systems and with other intelligence information systems; and what are these likely to be in the future? What are the major uses made of Photo Chip systems? By the processor/producers? By the single-source producers? Multiple-source producers? By users of warious intelligence end products?
- C. Ascertain present and prospective intelligence requirements for photographic information and Photo Chips at the National,

 Departmental and Operational level.
 - 1. <u>Wuestions</u> What are the needs of various users, both present and potential, for photographic information (imagery Approved For Release 2003/11/19: CIA-RDP80B01139A000500280009-0

data) in general? What are the present and potential requirements for photographic information in Photo Chip form? What are the varying requirements for technical characteristics of any Photo Chip xxxxx systems, such as, minimums and maximums for systems scales, installation area size, quality and the like? What are the critical difference (to intelligence users) in these areas, and the reasons therefor? What are the advantages and disadvantages of the Photo Chip form and of Photo Chip standardization? Where are Chips presently made? What is their distribution and use? How, where, and to what benefit could chipping lead to expanded use of photographic information?

- D. Review existing exploitation policy and procedures for photographic information (imagery data).
 - of photographic information (imagery data) with empahsis on reconnaissance photography? What has been the general policy on the collection, control, dissemin ation and use of photographic information of various kinds, especially in regard to reconnaissance photography? How has this affected its user: What are the trends in these regards, and how might the possible broader use of reconnaissance materials bear on both technical characteristics of Photo Chip standardization and future policies regarding dissemination and use? What are the problems and concerns of general

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all-source analytic offices as distinct from processor/
producers and special (single) source or single-purpose
producers? What are the present means for making strategic
photographic information (imagery data) available to general
analysts and users? How adequate are these in terms of
both present and prospective user needs? What means would
be most effective in bringing these latter considerations
to bear on Task Team deliberations?

E. Explore possible benefits from Photo Chip standardization.

content value and use) - What changes might occur in quality of photographic information (imagery data) in Photo Chip form? How might the dissemination, exchange and witimeliness of photographic information (imagery data) be affected by Photo Chip standardization? How might Photo Chip standardization affect the extent of use for intelligence purposes. For other purposes? In what areas are we make most likely to realize advantages from the more extensive use of Chipped photographic information (imagery data) as a part of the Community all-source analytic and production effort?

2. Questions (efficiency-economy) - To what extret might we expect Photo Chip standardization to lead to improvement in the overall effectiveness and efficiency of the Community intelligence effort? Where might these improvements occur? For what reasons? In what forms might these become evident?

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- 3. <u>Questions</u> (countervaling impacts) What might be the countervailing considerations of Photo Chip standardization? Added cost for chip production, dissemination, use? Added cost from broader use of chipped photographic information? From more intensive use? What other difficulties might arise in development of Photo Chip standardization? How would the foregoing appear over the short-term? The long-term?
- F. Explore the impact of constraining factors.
 - encountered in present technology affecting collection,
 processing, distribution and use of photographic information
 carried in Photo Chip form? Where are the most critical
 constraining points likely to be found? What is the impact
 of each constraining point on the coverage, quality,
 timeliness and general availability of photographic
 information to the Intelligence Community? How do the
 foregoing bear on Photo Chip standardization? Size? Form? Dayyn?

 Hardware? What are the trends in technology
 affecting the foregoing generally? What would be the impact
 of advancing technology on each of the constraint points?

 When might these occur?
 - 2. Questions (Policy, Security, Customs, Organization Structure, Exploitation Capability) In what ways might any of these effect the collection, processing, distribution and use of photographic information (imagery data) in Photo

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structure of the Community affect the xxxx sost and xxx utility of Photo Chip standardization?

3. Questions (Chemistry) - What are the constraints of present chemistry on the quality of photographic information, especially reconnaissance photography? How does this bear on the size and form of a Fhoto Chip? On the content value? On 2nd and 3rd, etc., generation quality and general file utility? What are the trends in chemistry related to photographic storage of information? What might be the timing and nature of future improvements? Mono? Stereo? Color? Black-White? Wet? Dry? Hat? Cold?

G. Prepare recommendations to CODIB.

All USIB agencies or their components having an intensive in the chelpage, and retrievel of photography in the chelpage, and retrievel of photography in the chelpage, and are a bibly to contribute may be

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10 June 1966

Comments on Task Team VIII Written Briefing Document:

- 1. The portions of the report pertaining to a reorganization of the reconnaissance community should be deleted.
- 2. Those portions pertaining to photo chip standardization should include material on:
 - a. Brief description of ISCIG effort, including:
 - (1) Reasons for recommending 70x100mm photo chip.
 - (2) Difficulties of implementing recommendation.
 - (3) Present status of ISCIG effort.
 - b. Who uses a 70x100mm photo chip today?
- c. Why the Task Team is not recommending standardization on the $70 \times 100 \text{mm}$ film chip for all uses in view of the original USIB charge on the subject.

d.	Droner	role	of the	film	chip	in	inte	elligen	ce proc	essing	in	view	οf
skeptici	sm of	many	people	with 1	refere	ence	to	SCRAM,	PACER,	SAMOS	, et	c.	

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